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THE UNIVERSITY OF ILLINOIS COLLEGE OF ENGI
1958 GRADUATES

10 years later

where are they now?

This report is an attempt to show the ten year professional and financial progress of the 1958 graduates of the University of Illinois College of Engineering.

We wish to thank the former graduates, who by giving us the necessary information, made the report possible. We hope that the information will be interesting to them, as well as to our friends in industry and government.

(Mrs.) Pauline V. Chapman

Pauline V. Chapman

Placement Director

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TEN-YEAR SALARY SURVEY OF ENGINEERING GRADUATES WHO RECEIVED A B.S. DEGREE IN 1958

	Number of Questionnaires Sent	Number of Questionnaires Returned	Per Cent of Return	Military Service	Currently in Graduate School	Employed	Average Monthly Salary 1968	High Monthly Salary 1968	Low Monthly Salary 1968	Average Starting Salary 1958	Per Cent of Increase 1958 to 1968
All Engineers	649	401	61.79%	9	1	391	$1241.66	$4166.00[2]	$675.00[3]	$486.83	155.05%[1]
Aero. E.	48	28	58.33%	2	-	26	1259.35	2091.00	900.00	513.58	145.21%
Ag. E.	12	9	75.00%	1	-	8	1094.38	1410.00	730.00	468.80	133.44%
Ceramic E.	14	12	85.71%	-	-	12	1228.58	1700.00	1000.00	465.33	164.02%
Civil E.	97	55	56.70%	-	-	55	1117.15	1800.00	760.00	467.00	139.22%
E. E.	218	147	67.43%	4	-	143	1297.52	2100.00	754.00	496.47	161.34%
E. Physics	28	16	57.14%	-	-	16	1246.75	1800.00	933.00	487.28	155.85%
Gen. E.	34	20	58.82%	-	-	20	1294.75	1800.00	890.00	476.64	171.64%
I. E.	19	10	52.63%	-	-	10	1438.30	4166.00	725.00	486.38	195.71%
M. E.	159	89	55.97%	2	1	86	1208.07	2500.00	675.00	481.52	150.88%
Met. E.	18	14	77.77%	-	-	14	1222.21	1530.00	1000.00	502.56	143.19%
Min. E.	2	1	50.00%	-	-	1	1028.00	1028.00	1028.00	475.00	116.42%

[1]Increase in starting salaries 1958-1968 - 59.10%.

[2]The 1958 graduate earning the highest salary is now in a real estate business, which he started in partnership with a friend.

[3]The 1958 graduate earning the lowest salary is teaching in a small religious college.

RANGE OF 1968 SALARIES OF 1958 B.S. ENGINEERING GRADUATES

The salaries are divided between those who have not received an additional degree and those who have.

B.S. Degree

Monthly Salary	Total	Monthly Salary	Total	Monthly Salary	Total	Monthly Salary	Total
$4166	1	$1237	1	$1050	5	$800	1
2100	1	1235	1	1049	1	760	1
2091	1	1226	1	1048	1	754	1
2000	2	1225	2	1042	1	730	1
1900	2	1220	1	1040	2	725	1
1850	2	1218	1	1037	1		251
1834	1	1210	1	1033	1		
1810	1	1208	1	1030	2		
1800	1	1205	1	1028	1		
1798	1	1200	24	1026	1		
1750	1	1195	1	1025	3		
1730	1	1184	1	1024	1		
1700	1	1181	1	1020	2		
1650	1	1175	1	1018	1		
1600	2	1170	1	1014	1		
1590	1	1165	1	1008	1		
1582	1	1160	1	1006	1		
1580	1	1155	1	1005	1		
1550	3	1150	2	1000	17		
1504	1	1144	1	990	1		
1500	5	1143	1	985	1		
1450	2	1142	1	980	2		
1425	1	1140	1	979	1		
1416	1	1134	1	975	4		
1400	2	1133	1	960	2		
1375	3	1130	2	953	1		
1352	1	1125	2	950	3		
1350	5	1120	1	945	1		
1340	1	1115	1	930	1		
1333	1	1110	1	920	1		
1326	1	1100	18	910	1		
1325	1	1090	1	900	4		
1310	1	1083	1	895	1		
1300	10	1080	4	890	3		
1280	1	1075	2	888	1		
1275	2	1073	1	885	1		
1250	15	1065	1	860	1		
1248	1	1060	2	850	1		
1240	2	1054	1	825	1		

M.S. Degree

Monthly Salary	Total
$2500	1
1833	1
1700	1
1635	1
1620	1
1600	1
1595	1
1555	1
1550	1
1460	1
1456	1
1450	1
1445	1
1434	1
1417	1
1400	2
1385	1
1360	2
1340	2
1330	3
1320	2
1317	1
1300	2
1295	1
1293	1
1280	1
1255	1
1250	4

(Con't)

M.S. Degree (Con't)

Monthly Salary	Total
$1244	1
1225	1
1200	5
1194	1
1183	1
1175	1
1170	1
1166	1
1163	1
1160	1
1150	2
1140	1
1120	1
1100	3
1080	2
1066	1
1055	1
1051	1
1041	1
1010	1
1000	4
993	1
975	1
967	1
945	1
940	1
933	1
675	1
	77

Ph.D. Degree

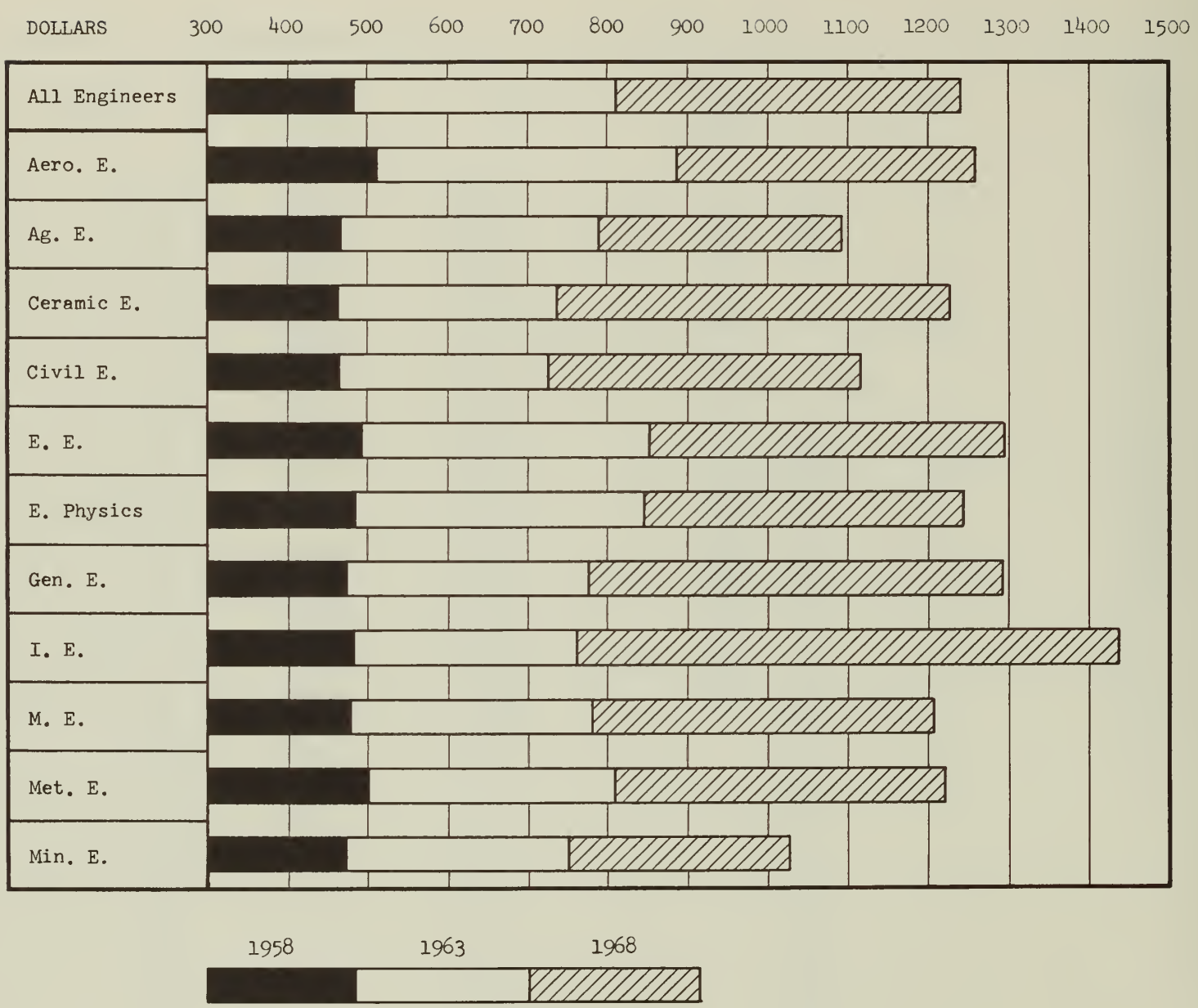
Monthly Salary	Total
$1820	1
1700	1
1660	1
1650	1
1633	1
1625	1
1600	2
1530	1
1517	1
1500	2
1470	1
1433	1
1420	1
1410	1
1400	2
1350	1
1333	1
1300	2
1220	1
1213	1
1200	4
1150	1
1130	1
1125	1
1108	1
900	1
	33

M.B.A. Degree

Monthly Salary	Total
$1700	1
1600	1
1510	1
1430	1
1410	1
1400	1
1350	2
1314	1
1250	1
1200	1
1167	1
1130	1
1100	2
1040	1
1000	2
950	1
913	1
	20

Law Degree

Monthly Salary	Total
$2500	1
1800	2
1750	1
1700	1
1500	1
1375	1
1325	1
1300	1
1160	1
	10


DOLLARS
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
All Engineers
Aero. E.
Ag. E.
Ceramic E.
Civil E.
E. E.
E. Physics
Gen. E.
I. E.
M. E.
Met. E.
Min. E.
1958
1963
1968

SALARY COMPARISON OF THOSE B.S. GRADUATES WHO HAVE COMPLETED AN ADVANCED DEGREE SINCE THEIR GRADUATION IN 1958 AND THOSE WHO HAVE NOT

	Total Employed	No Advanced Degree	M.S. in Original Field[1]	M.S. in Other Technical Field[1]	M.S. in Non-Technical Field[1]	Ph.D. in Original Field[1]	Ph.D. in Other Technical Field[1]	M.B.A.[1]	L.L.B.[1]
All Engineers	391	251	61	13	3	26	7	20	10
Average Salary		$1202.04	$1272.66	$1159.54	$1383.33	$1411.12	$1301.14	$1245.70	$1621.00
Aero. E.	26	14	2	3	-	3	-	3	1
Average Salary		1193.07	1350.00	1191.67	-	1506.67	-	1306.67	1325.00
Ag. E.	8	4	3	-	-	-	1	-	-
Average Salary		973.75	1150.00	-	-	-	1410.00	-	-
Ceramic E.	12	8	1	-	-	2	-	-	1
Average Salary		1111.25	1250.00	-	-	1451.50	-	-	1700.00
Civil E.	55	39	11	2	-	2	-	1	-
Average Salary		1092.93	1162.36	1116.50	-	1350.00	-	1100.00	-
E. E.	143	98	28	4	-	7	-	4	2
Average Salary		1266.21	1450.03	1245.75	-	1501.43	-	1253.25	1525.00
E. Physics	16	6	1	2	-	4	2	-	1
Average Salary		1168.33	1280.00	1016.50	-	1301.25	1310.00	-	1800.00
Gen. E.	20	10	1	1	-	1	1	4	2
Average Salary		1246.20	1100.00	1000.00	-	1108.00	1220.00	1457.50	1587.50
I. E.	10	7	2	-	1	-	-	-	-
Average Salary		1577.86	1181.50	-	975.00	-	-	-	-
M. E.	86	60	10	-	2	3	3	6	2
Average Salary		1154.70	1248.20	-	1587.50	1466.67	1286.00	1116.17	2000.00
Met. E.	14	4	2	1	4	-	-	2	1
Average Salary		1171.00	1160.00	1250.00	1335.75	-	-	1177.00	1160.00
Min. E.	1	1	-	-	-	-	-	-	-
Average Salary		1028.00	-	-	-	-	-	-	-

[1]Of those who completed advanced degrees 66 (47.14%) completed the degree as a full-time student, 74 (52.86%) as a part-time student while employed.

1958 GRADUATES PRESENTLY WORKING ON ADVANCED DEGREES

	Total	M.S. in Original Field	M.S. in Other Technical Field	M.S. in Non-Technical Field	Ph.D. in Original Field	Ph.D. in Other Technical Field	Ph.D. in Non-Technical Field	M.B.A.	Law	Other
All Engineers	70	19	6	12	5	4	1	20	-	3
Aero. E.	4	1	1	2	-	-	-	-	-	-
Ag. E.	1	-	1	-	-	-	-	-	-	-
Ceramic E.	-	-	-	-	-	-	-	-	-	-
Civil E.	8	3	-	-	2	-	-	2	-	1
E. E.	32	13	2	5	3	3	-	5	-	1
E. Physics	1	-	-	-	-	-	-	1	-	-
Gen. E.	5	-	-	1	-	1	-	3	-	-
I. E.	3	-	-	1	-	-	-	2	-	-
M. E.	13	2	1	2	-	-	1	6	-	1
Met. E.	3	-	1	1	-	-	-	1	-	-
Min. E.	-	-	-	-	-	-	-	-	-	-

CORRELATION BETWEEN SCHOLASTIC AVERAGE AND FINANCIAL PROGRESS 1958 - 1968

	Total Employed	1st Decile 5.00 - 4.350	2nd Decile 4.349 - 4.057	3rd Decile 4.056 - 3.891	4th Decile 3.890 - 3.745	5th Decile 3.744 - 3.635	6th Decile 3.634 - 3.507	7th Decile 3.506 - 3.349	8th Decile 3.348 - 3.230	9th Decile 3.229 - 3.080	10th Decile 3.079 - 3.00
All Engineers	391	40 $1319.30	39 $1345.33	39 $1248.00	39 $1279.82	39 $1266.72	39 $1130.44	39 $1183.38	39 $1186.46	39 $1170.49	39 $1284.67
Aero. E.	26	5 1413.60	- -	3 1292.00	1 1110.00	1 1325.00	2 1072.00	3 1132.67	6 1292.00	- -	5 1214.00
Ag. E.	8	2 1332.50	2 1055.00	1 1410.00	- -	1 730.00	- -	- -	2 920.00	- -	- -
Ceramic E.	12	- -	1 1470.00	4 1222.50	- -	1 1250.00	1 1433.00	4 1150.00	- -	- -	1 1100.00
Civil E.	55	3 1233.33	6 1146.33	4 1076.50	4 1253.25	7 1153.00	9 1058.56	4 937.50	3 1353.33	8 1134.38	7 1009.00
E. E.	143	18 1361.83	13 1419.54	15 1357.93	16 1310.63	18 1377.56	13 1118.31	13 1209.85	12 1150.08	16 1239.56	9 1393.78
E. Physics	16	4 1245.00	1 1800.00	3 1110.00	3 1141.67	2 1266.50	2 1460.00	- -	- -	- -	1 960.00
Gen. E.	20	1 1108.00	5 1274.00	- -	4 1462.50	1 1237.00	2 1265.00	- -	4 1365.00	1 890.00	2 1225.00
I. E.	10	- -	1 1163.00	1 1200.00	2 1012.00	2 1150.00	- -	1 725.00	1 1225.00	- -	2 2873.00
M. E.	86	5 1302.80	9 1433.67	7 1154.00	6 1252.83	6 1193.33	9 1106.11	10 1334.30	10 1105.40	12 1100.08	12 1180.75
Met. E.	14	2 1112.00	1 1320.00	1 1213.00	3 1334.67	- -	1 1040.00	3 1193.33	1 1080.00	2 1325.00	- -
Min. E.	1	- -	- -	- -	- -	- -	- -	1 1028.00	- -	- -	- -

THE RESPONDING, EMPLOYED 1958 ENGINEERING GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING COMPANIES

Abbott Laboratories	1 E.E.
Aerojet General Corporation	1 E.E.
Aeroquip Corporation	1 E.Phys.
Aerospace Corporation	1 Met.E.
Airesearch Corporation - Garrett Division	1 M.E.
Airline Pilots Association	1 Aero.E.
Allegheny Engineering Company	1 M.E.
American Airlines	1 Aero.E.
American Standard, Inc.	1 Ceram.E.
Ametek, Inc.	1 M.E.
Ampex Corporation	1 M.E.
Arthur Andersen & Company	1 Gen.E.
Anvil Products, Inc.	1 M.E.
Argonne National Laboratory	1 E.E.
Arinc Research Corporation	1 Civ.E.
Arizona State University	1 Gen.E.
Armco Steel Corporation	1 Civ.E.
Armstrong Cork Company	1 I.E.
Aro Inc.	1 E.E.
Arvin Industries	1 E.E.
Automatic Electric Company	3 E.E., 1 E.Phys., 1 M.E.
Automated Handling Systems Inc.	1 E.E.
Avantek, Inc.	1 E.E.
Avco - Missile & Space Division	1 Aero.E.
Badger Meter Company	1 E.E.
Bar List Publishing Company	1 Gen.E.
Barber Colman Company	1 E.E., 1 M.E.
Bechtel Corporation	1 Civ.E.
Bell System: (18)	
A.T.T. (New York)	2 M.E.
Bell Laboratories	2 E.E.
Illinois Bell Telephone Company	2 C.E., 2 E.E., 2 M.E.
Southwestern Bell Telephone Company	1 E.Phys.
Western Electric Company	3 E.E.
Sandia Corporation	2 E.E., 2 M.E.
Beltone Electric Corporation	1 E.E.
Bendix Research Laboratory	1 E.E.
Boeing Company	1 Aero.E., 5 E.E., 1 M.E.

(Con't)

R. W. Booker and Associates	1 Civ.E.
Bourns, Inc.	1 M.E.
Bucyrus - Erie Company	1 Gen.E.
California Department of Highways	1 Civ.E.
Carriage Investment Company	1 I.E.
Caterpillar	1 Ag.E., 1 Gen.E., 2 M.E., 1 Met.E.
Central Illinois Public Service Company	1 E.E.
Central Technology Corporation	1 M.E.
Chase Manhattan Bank	1 Gen.E.
Chicago Metropolitan Sanitary District	1 Civ.E.
Chicago Bureau of Engineering	1 Civ.E.
Chicago Bridge and Iron	2 M.E.
Christian College	1 M.E.
Chrysler Corporation	1 M.E.
City of Evanston	1 Civ.E.
City of Carbondale	1 Aero.E.
City of Davenport	1 Civ.E.
Collins Radio	1 E. Phys.
Colorado State University	1 Aero.E.
Commercial Testing and Engineering Company	1 Gen.E.
Commonwealth Edison Company	1 E.E., 1 Gen.E.
Conductron Missouri	2 E.E.
Construction Engineering Service	1 Civ.E.
Control Data Corporation	1 E.E.
Cook County Highway Department	1 Civ.E.
Cornell Aeronautical Laboratory	1 E.E.
Crawford, Bunte, Roden, Inc.	1 Civ.E.
Cummins Engine Company	1 M.E.
Dana, Perfect Circle Division	1 M.E.
Data Dynamics, Inc.	1 E.E.
Deere & Company	1 Ag.E.
DeVry Institute of Technology	1 E.E.
C. H. Dexter & Sons Inc.	1 Aero.E.
Dikewood Corporation	1 E.E.
R. R. Donnelley & Company	1 E.Phys., 1 Gen.E.
Dow Chemical Company	1 Met.E.
Dravo Corporation	1 E.E.
Dunkley Company	1 M.E.
E. I. DuPont De Nemours & Company	1 M.E.
Dynapar	1 E.E.

(Con't)

Eastman Kodak Company	1 E.Phys., 1 Gen.E.
E.G.&G. Inc.	1 E.E.
Electronic Associates, Inc.	1 E.E.
Electronic Communications, Inc.	1 E.Phys.
Elgin, Joliet & Eastern Railroad	1 Civ.E.
Emerson Electric Company	3 E.E.
Erie Technological Products, Inc.	1 Ceram.E.
Ernst & Ernst & Company	1 E.E.
Esco Corporation	1 M.E.
H. G. Fischer & Company	1 M.E.
F.M.C. Corporation	1 Ag.E., 1 Gen.E., 1 M.E.
Ford Foundation	1 M.E.
Franklin Institute Research Laboratory	1 Met.E.
General American Transportation Corporation	1 Civ.E.
General Dynamics: (5)	
Convair Division	1 Aero., 1 M.E.
Fort Worth Division	1 E.E.
Electronics Division	1 E.E.
Pomona Division	1 E.E.
General Motors Corporation: (2)	
A. C. Electronics Division	1 E.E.
Delco-Remy Division	1 E.E.
General Electric Corporation	3 E.E., 1 E.Phys., 2 M.E., 1 Met.E.
General Foods Corporation	1 M.E.
General Telephone Company	1 E.E.
Geolabs, Inc.	1 Civ.E.
W. R. Grace Company	1 Ceram.E.
A. P. Green Refractories	1 Ceram.E.
Hallmark Electronics	1 E.E.
Halsey Machine & Manufacturing Company	1 M.E.
Hamilton, Cook, Renner, & Kenner	1 Gen.E.
S. A. Healy Company	1 Civ.E.
Hennington, Durham & Richardson	1 Civ.E.
Hill, Sherman, Meroni, Grose & Simpson	1 Met.E.
Homebrite Company	1 M.E.
Honeywell	3 E.E., 1 Met.E.
Hughes Aircraft Company	7 E.E.
Hunt Wesson Foods	1 Civ.E.
Illinois Institute of Technology	1 E.E., 1 M.E.
Illinois Division of Highways	3 Civ.E.

(Con't)

Illinois Tool Company	1 M.E.
Indiana Highway Commission	2 Civ.E.
Indianapolis Power & Light Company	1 M.E.
Induction Heating & Engineering Corporation	1 Met.E.
Inland Steel Company	1 Civ.E., 1 M.E.
International Harvester Company	1 E.E., 3 M.E.
I.T.T. - Gilfillan	1 E.E.
I.T.T. - Industrial Laboratories	1 M.E.
I.T.T. - Lighting Division	1 E.E.,
I.B.M.	6 E.E., 1 E.Phys., 1 Gen.E., 1 I.E., 1 M.E. 1 Met.E.
Interlake Steel Company	1 M.E.
Interstate Electronics Corporation	1 E.E., 1 M.E.
Itek, Applied Technology Division	1 E.E.
Jet Propulsion Laboratory	1 M.E.
Johnson Service Company	1 Gen.E.
Kaiser Steel Company	1 Ceram.E.
Kaiser Engineering Company	1 Civ.E.
Kaman Nuclear Corporation	2 Aero.E.
Kiekhaefer Mercury	1 M.E.
King Radio Corporation	1 E.E.
Koppers Company	1 E.E.
L.T.V. Inc.	1 E.E.
Leeds & Northrup	1 E.E.
Lennox Industries, Inc.	1 M.E.
Litton Industries	2 E.E.
Lockheed: (6)	
Georgia Division	1 Aero.E.
California Division	2 E.E.
Missiles and Space Division	2 E.E., 1 M.E.
Logicon, Inc.	1 E.Phys., 1 M.E.
Los Alamos Scientific Laboratory	3 Met.E.
Magnavox	3 E.E., 1 M.E.
Marathon Oil Company	1 Met.E.
Mars Candy Company	1 I.E.
Master Builders	1 Civ.E.
Mattell Corporation	1 I.E.
McDonnell Douglas: (16)	
Huntington Beach	1 Civ.E., 1 E.E.
Long Beach	1 E.E.
St. Louis	3 Aero.E., 4 E.E., 2 M.E.
Santa Monica	3 Aero.E., 1 E.E.

(Con't)

Menard Electric Cooperative	1 Ag.E.
Merriman, Marshall, Shapiro, & Klose	1 E.E.
Michigan Highway Department	2 Civ.E.
Michigan Testing Engineers, Inc.	1 Civ.E.
Microdyne, Inc.	1 E.E.
Midwest Television, Inc.	1 E.E.
Midwest Steel Company	1 I.E.
Minnesota Mining & Manufacturing Company	1 Ceram.E.
Minnesota Power & Light Company	1 E.E.
Mississippi State University	1 Ag.E.
Mobil Oil Company	1 Gen.E.
Montana State University	1 E.E.
Motorola: (5)	
Chicago	2 E.E., 1 E.Phys.
Phoenix	1 E.E., 1 I.E.
North American Aviation: (5)	
Autonetics	1 Aero.E., 1 E.E.
Downey Division	1 Civ.E.
Tulsa Division	1 Aero., 1 M.E.
N.A.S.A. - Huntsville	1 M.E.
N.A.S.A. - Edwards Air Force Base	1 M.E.
W. T. Neiman Construction Company	1 Ag.E.
New Castle Products Company	1 M.E.
Northern Illinois University	1 Civ.E.
Norton Company	1 Ceram.E.
Nuclear Chicago Corporation	1 E.E.
Nunn Electric Supply Corporation	1 E.E.
Oceanography, Inc.	1 E.E.
Ohio State University	1 I.E.
Olin Brass Company	1 M.E.
Oshkosh Truck Company	1 M.E.
Owens Illinois	1 Ceram.E., 1 Gen.E.
Packard Bell Space & Systems Division	1 E.E., 1 M.E.
Pennsalt Chemical Company	1 Civ.E.
Philco Ford	1 Aero.E.
Pittsburgh Public Parking Authority	1 Civ.E.
Portland Cement Association	3 Civ.E.
P.P.G. Industries	1 Ceram.E., 1 I.E.
Pratt & Whitney Aircraft Company	1 Aero.E., 1 E.E.
R.C.A. Laboratories	1 E.E.

(Con't)

Raytheon Corporation	2 E.E.
Reinhold Publishing Company	1 M.E.
Remmington Arms Company	1 M.E.
Reno, Zahn, Folgate & Skolrood	1 M.E.
Republic Steel Company	1 M.E.
Resco, Inc.	1 M.E.
Reynolds Metals Company	1 Ceram.E., 1 Civ.E.
Riegel Paper Company	1 M.E.
Robertshaw Controls Company	1 E.E.
Rose Polytechnic Institute	1 E.E.
Rowe International, Inc.	1 M.E.
Wm. M. Ruva Company	1 E.E.
Ryerson Steel Company	1 Civ.E.
C. L. Sagaser & Associates	1 Civ.E.
Sanders Associates	1 E.E.
Sangamo Electric Company	1 E.E., 1 Gen.E.
Sargent & Lundy	1 E.E., 1 M.E.
Scientific Atlanta	1 E.E.
Scientific Data Systems	1 E.E.
Shaw Engineering Inc.	1 E.E.
Shelton College	1 M.E.
Signode Corporation	1 M.E.
A. O. Smith Corporation	1 Ag.E.
Sola Electric Corporation	1 E.E.
Southern California Edison Company	1 E.E.
Sperry Rand, Vickers Division	1 Aero.E.
Sperry Gyroscope Company	1 E.E.
Standard Forgings	1 E.E.
Stewart Warner Corporation	2 E.E.
St. Louis County Water Company	1 Civ.E.
Sundstrand Aviation Corporation	1 E.E., 1 M.E., 1 Met.E.
Technomic Research Associates	1 M.E.
Tektronix Inc.	1 E.Phys.
Texaco	1 Min.E.
Texas Instruments Company	1 E.E.
Trane Company	1 M.E.
Treadwell Corporation	1 M.E.
T.R.W. Systems	1 Aero.E., 1 Ag.E., 1 E.E., 1 Gen.E.
Turner, Bailey, & Zoll, Inc.	1 Civ.E.

(Con't)

U.S. Army Aviation Commission	1 Aero.E.
U.S. Army Corps of Engineers	2 Civ.E.
U.S. Army Electronics Communications	1 E.E.
U.S. Army Electronics Command	1 E.E.
U.S. Army Management Engineering Training Agency	1 I.E.
U.S. Department of Defense	1 M.E.
U.S. Forest Service	1 Civ.E.
U.S. Navy Civil Engineering Laboratory	1 Civ.E.
U.S. Naval Weapons Center	1 E.E.
U.S. Naval Ordnance Laboratory	1 E.Phys.
U.S. Public Health Service	1 Civ.E.
Union Carbide Corporation - Chicago	2 M.E.
University of Colorado	1 E.E.
University of Connecticut	1 M.E.
University of Illinois	1 Aero.E., 1 Civ.E., 1 E.E., 2 M.E.
University of Miami	1 E.Phys.
University of Missouri	1 M.E.
University of Wisconsin	1 E.Phys., 1 Gen.E.
Vapor Corporation	1 M.E.
Village of Winnetka	1 Gen.E.
Vilter Manufacturing Company	1 M.E.
R. V. Weatherford Company	1 E.E.
Western Illinois University	1 E.Phys.
Westinghouse	3 E.E., 1 M.E.
White Motor Company	1 M.E.
Wiegand & Storrer, Inc.	1 Civ.E.
Will County Highway Department	1 Civ.E.
Wisconsin Department of Transportation	1 Civ.E.
Wisconsin Highway Department	1 Civ.E.
Woodward, Clyde & Associates	1 Civ.E.
Xerox Corporation	1 E.E.
Zenith Radio	2 Ceram.E.
Zenith Rauland	1 E.E.
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JOB CHANGES SINCE 1958

Total Per Cent of Change		Total Employed	No Changes			One Change			Two Changes			Three Changes			Four or More Changes[1]		
			Number	Per Cent of Change	Salary	Number	Per Cent of Change	Salary	Number	Per Cent of Change	Salary	Number	Per Cent of Change	Salary	Number	Per Cent of Change	Salary
62.66%	All Engineers	391	146	37.34%	$1241.69	128	32.74%	$1241.02	71	18.16%	$1218.35	31	7.93%	$1249.09	15	3.83%	$1341.73
76.92%	Aero. E.	26	6	23.08%	1305.33	9	34.62%	1276.22	8	30.77%	1226.00	3	11.53%	1205.67	-	-	-
62.50%	Ag. E.	8	3	37.50%	1026.67	5	62.50%	1135.00	-	-	-	-	-	-	-	-	-
58.33%	Ceramic E.	12	5	41.67%	1290.00	6	50.00%	1215.50	-	-	-	-	-	-	1	8.33%	1000.00
65.45%	Civil E.	55	19	34.55%	1156.10	13	23.64%	1114.15	14	25.45%	1068.00	8	14.55%	1108.25	1	1.81%	1175.00
57.34%	E.E.	143	61	42.66%	1281.80	45	31.47%	1311.82	24	16.78%	1338.12	9	6.29%	1254.89	4	2.80%	1228.75
68.75%	E. Physics	16	5	31.25%	1256.00	4	25.00%	1362.50	4	25.00%	1054.50	2	12.50%	1450.00	1	6.25%	1100.00
60.00%	Gen. E.	20	8	40.00%	1261.63	6	30.00%	1441.67	4	20.00%	1269.25	-	-	-	2	10.00%	1037.50
80.00%	I. E.	10	2	20.00%	1162.50	1	10.00%	1163.00	2	20.00%	1390.00	3	30.00%	1074.67	2	20.00%	2445.50
61.63%	M. E.	86	33	38.37%	1223.30	30	34.88%	1150.03	13	15.12%	1171.77	6	6.98%	1470.17	4	4.65%	1242.50
78.57%	Met. E.	14	3	21.43%	1224.67	9	64.29%	1235.22	2	14.28%	1160.00	-	-	-	-	-	-
-	Min. E.	1	1	100%	1028.00	-	-	-	-	-	-	-	-	-	-	-	-

[1] 11 made 4 changes - average salary $1412.82
3 made 5 changes - average salary $1286.67
1 made 8 changes - salary $725.00

REASONS FOR CHANGING POSITIONS

Some combining of reasons was attempted but in order to bring out as many dissatisfactions as possible the following list resulted. Some respondents listed more than one reason for leaving; others gave no reason even though one was requested.

Reasons Involving Work:

43	lack of opportunity
29	chance for advancement
26	better job
14	disinterested in type of work
12	laid off
9	more challenging work
9	to gain more varied experience
8	lack of opportunity for advancement
8	change of field
6	unsatisfactory working conditions
4	more interesting work
4	lack of professional development
4	more responsibility
4	work too routine
4	lack of work
3	no future with company
3	no growth possibilities
3	not satisfied with assignments
2	no room for advancement
2	lost government contracts
2	impending lay-off
2	excessive overtime
2	insecurity of government contracts
1	little potential in my field
1	no projects in my field of interest
1	Civil Service unproductive
1	tired of doing menial tasks
1	over-specilization
1	division ran out of work
1	lack of new business
1	decreasing funds for research

Reasons Involving the Company:

4	company sold, did not wish to work for new company
4	poor company management
2	company too large
2	company politics
2	company going downhill
2	poor professional atmosphere
2	to get out of the aerospace industry
1	to go with a smaller company
1	my first company requested my return
1	company changed emphasis, it was not interested in research
1	management misrepresented the job offered
1	company too conservative
1	organizational problems
1	lack of imagination and enthusiasm in management
1	dissatisfaction with company
1	company too small, lacked challenge
1	continual degradation of engineers including time clocks and salary cuts
1	dissatisfaction with supervisory personnel
1	lack of progress of company
1	supervisor would not release me from assigned group for a better position in company
1	on "buddy" system
1	personality conflict with group leader
1	violent difference of opinion with management
1	to go with a growing company

Reasons Involving Salary:

35	salary

(Con't)

REASONS FOR CHANGING POSITIONS (CON'T)

Reasons Involving Location:

7	location (no explanation)
5	to move back to Midwest
4	climate
3	to return to Chicago
2	did not like living in California
2	to work nearer home
2	to move to California
1	opportunity to work outside the United States
1	Los Angeles area unsatisfactory for family living
1	undesirable area
1	to avoid location transfer
1	to relocate
1	disliked Los Angeles area

Reasons Involving Further Education:

17	to return to graduate school
4	opportunity to continue education with new company
1	chance to learn logic design

Reasons Involving Travel:

2	too much travel
2	too much field work
2	too much commuting

Miscellaneous Reasons:

4	started own business
3	personal reasons (no explanation)
1	disenchanted with aerospace industry
1	to seek job requiring higher technical demands hoping that it would lead to higher income
1	to go into business with father-in-law
1	dissolved partnership
1	they didn't like my Fundamentalist and anti-communist stand
1	came to dead end after five years
1	itchy feet

PRESENT GEOGRAPHIC LOCATION OF 1958 ENGINEERING GRADUATES

Location	All Engineers	Per Cent	Geographic Location 1958	Aero. E.	Ag. E.	Ceramic E.	Civil E.	E. E.	E. Physics	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Illinois	125	31.97%	36.72%	3	5	2	23	32	5	8	2	39	6	-
Chicago & Suburbs 73														
Outside Chicago 52														
California	70	17.90%	17.56%	7	1	1	12	31	1	3	2	11	1	-
Missouri	23	5.88%	6.71%	4	-	2	3	9	1	-	-	4	-	-
New York	21	5.37%	2.54%	-	-	-	-	8	2	3	1	5	2	-
Indiana	18	4.60%	5.78%	-	-	-	4	7	-	1	-	6	-	-
Pennsylvania	13	3.32%	2.77%	-	-	2	1	4	-	1	1	3	1	-
Wisconsin	12	3.07%	3.23%	-	1	-	2	2	1	2	-	4	-	-
Michigan	10	2.56%	3.00%	1	-	-	3	3	-	-	-	2	1	-
New Jersey	9	2.30%	2.31%	-	-	-	-	6	-	-	-	3	-	-
New Mexico	9	2.30%	1.62%	-	-	-	-	4	-	-	-	2	3	-
Ohio	9	2.30%	2.31%	-	-	1	3	3	-	1	1	-	-	-
Florida	7	1.79%	.23%	1	-	-	-	4	2	-	-	-	-	-
Texas	7	1.79%	1.62%	1	-	-	-	4	1	-	1	-	-	-
Washington (state)	6	1.53%	3.93%	1	-	-	-	4	-	-	-	1	-	-
Arizona	5	1.29%	.46%	-	-	-	-	2	1	1	1	-	-	-
Colorado	5	1.29%	-	3	-	-	-	1	-	-	1	-	-	-
Massachusetts	4	1.02%	.92%	1	-	1	-	2	-	-	-	-	-	-

(Con't)

PRESENT GEOGRAPHIC LOCATION OF 1958 ENGINEERING GRADUATES (CON'T)

Location	All Engineers	Per Cent	Geographic Location 1958	Aero. E.	Ag. E.	Ceramic E.	Civil E.	E. E.	E. Physics	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Connecticut	3	.78%	-	1	-	-	-	1	-	-	-	1	-	-
Georgia	3	.78%	.23%	1	-	-	1	1	-	-	-	-	-	-
Maryland	3	.78%	.92%	-	-	-	-	1	1	-	-	1	-	-
Minnesota	3	.78%	.92%	-	-	1	-	2	-	-	-	-	-	-
Oklahoma	3	.78%	-	1	-	-	-	-	-	-	-	1	-	1
Alabama	2	.51%	-	1	-	-	-	-	-	-	-	1	-	-
Kentucky	2	.51%	-	-	-	1	1	-	-	-	-	-	-	-
Montana	2	.51%	-	-	-	-	1	1	-	-	-	-	-	-
North Carolina	2	.51%	.92%	-	-	-	-	2	-	-	-	-	-	-
Nebraska	2	.51%	.23%	-	-	-	1	1	-	-	-	-	-	-
Virginia	2	.51%	.23%	-	-	1	-	1	-	-	-	-	-	-
Washington D.C.	2	.51%	.69%	-	-	-	-	2	-	-	-	-	-	-
E. Pakistan	1	.25%	-	-	-	-	-	-	-	-	-	1	-	-
Kansas	1	.25%	.46%	-	-	-	-	1	-	-	-	-	-	-
Louisiana	1	.25%	-	-	-	-	-	1	-	-	-	-	-	-
Mississippi	1	.25%	-	-	1	-	-	-	-	-	-	-	-	-
Nevada	1	.25%	-	-	-	-	-	1	-	-	-	-	-	-
New Hampshire	1	.25%	-	-	-	-	-	1	-	-	-	-	-	-
Oregon	1	.25%	-	-	-	-	-	-	1	-	-	-	-	-
Tennessee	1	.25%	.92%	-	-	-	-	1	-	-	-	-	-	-
West Virginia	1	.25%	.23%	-	-	-	-	-	-	-	-	1	-	-
Iowa	-	-	1.85%	-	-	-	-	-	-	-	-	-	-	-
Delaware	-	-	.23%	-	-	-	-	-	-	-	-	-	-	-
Canal Zone	-	-	.23%	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	.23%	-	-	-	-	-	-	-	-	-	-	-
Totals	391	100%		26	8	12	55	143	16	20	10	86	14	1

MILITARY SERVICE AFTER GRADUATION IN 1958 AND ITS EFFECT ON 1968 SALARIES

	Total Employed	No Military Service	6 Months or Less	1 Year	2 or More Years
All Engineers		65.64%	18.72%	1.28%	14.36%
Number	390[1]	256	73	5	56
Average Salary		$1272.30	$1161.97	$1074.00	$1228.64
Aero. E.		84.61%	3.85%	-	11.54%
Number	26	22	1	-	3
Average Salary		1248.68	1037.00	-	1411.67
Ag. E.		50.00%	25.00%	-	50.00%
Number	8	4	2	-	2
Average Salary		1118.75	1165.00	-	975.00
Ceramic. E.		58.33%	16.67%	8.33%	16.67%
Number	12	7	2	1	2
Average Salary		1206.14	1150.00	1100.00	1450.00
Civil E.		45.45%	34.55%	-	20.00%
Number	55	25	19	-	11
Average Salary		1108.28	1216.95	-	1174.00
E. E.		74.65%	14.79%	.70%	9.86%
Number	142	106	21	1	14
Average Salary		1285.91	1206.81	1330.00	1344.79
E. Physics		87.50%	-	-	12.50%
Number	16	14	-	-	2
Average Salary		1265.57	-	-	1115.00
Gen. E.		45.00%	30.00%	-	25.00%
Number	20	9	6	-	5
Average Salary		1258.67	1165.33	-	1515.00
I. E.		70.00%	30.00%	-	-
Number	10	7	3	-	-
Average Salary		1572.57	1125.00	-	-
M. E.		59.30%	20.93%	2.33%	17.44%
Number	86	51	18	2	15
Average Salary		1263.45	1196.94	950.00	1067.53
Met. E.		71.44%	7.14%	7.14%	14.28%
Number	14	10	1	1	2
Average Salary		1283.10	1080.00	1040.00	1080.00
Mining E.		100%	-	-	-
Number	1	1	-	-	-
Average Salary		1028.00	-	-	-

[1] 1 E. E. respondent did not answer this question.

THE EMPLOYED 1958 GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING TYPES OF COMPANIES

Type of Company[1]	Per Cent	1968 Average Salary	All Engineers	Aero. E.	Ag. E.	Ceramic E.	Civil E.	E. E.	E. Physics	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Aircraft,				16	1	-	2	25	1	1	-	11	2	-
Missile and Space	15.09%	$1261.14	59	$1251.	$1410.	-	$1500.	$1242.	$1800.	$1250.	-	$1187.	$1405.	-
				1	-	3	-	43	3	-	-	4	-	-
Electronics	13.80%	1273.74	54	1080.	-	$1257.	-	1295.	1087.	-	-	1251.	-	-
				2	1	-	2	5	3	2	1	7	-	-
Schools and Colleges	5.88%	1186.22	23	1350.	1100.	-	1098.	1152.	1250.	1164.	$975.	1211.	-	-
Metal and				-	1	2	5	3	-	-	1	10	-	-
Metal Products	5.63%	1116.41	22	-	1010.	1113.	1151.	1217.	-	-	725.	1120.	-	-
Data Processing				-	-	-	-	13	2	1	1	1	1	-
and Business Machines	4.86%	1476.42	19	-	-	-	-	1531.	1550.	1600.	1200.	950.	1300.	-
				-	3	-	-	1	-	3	-	10	1	-
Heavy Equipment	4.60%	1176.78	18	-	1218.	-	-	1075.	-	1137.	-	1173.	1314.	-
				2	-	-	3	8	-	-	-	1	4	-
Research Laboratories	4.60%	1332.50	18	1216.	-	-	1231.	1434.	-	-	-	1208.	1296.	-
				-	1	-	10	3	-	1	-	2	-	-
Consulting Engineers	4.35%	1203.24	17	-	850.	-	1195.	1420.	-	1000.	-	1200.	-	-
				-	1	-	3	7	1	1	-	4	-	-
Public Utilities	4.35%	1104.53	17	-	730.	-	1192.	1092.	1000.	1060.	-	1192.	-	-
				-	-	-	-	12	2	-	-	2	-	-
Communications Equipment	4.09%	1258.63	16	-	-	-	-	1293.	1092.	-	-	1220.	-	-
				-	-	-	-	7	-	1	-	4	2	-
Electrical Equipment	3.58%	1301.14	14	-	-	-	-	1360.	-	1600.	-	1254.	1040.	-
				1	-	-	3	4	1	-	1	2	-	-
Federal Government	3.07%	1165.08	12	1142.	-	-	1084.	1225.	1125.	-	1163.	1200.	-	-
Chemical and				-	-	2	1	1	1	1	-	5	1	-
Chemical Products	3.07%	1211.00	12	-	-	1249.	1018.	1184.	1350.	1375.	-	1176.	1200.	-
Controls and				1	-	-	-	6	1	-	1	2	-	-
Instrumentation	2.81%	1114.72	11	1240.	-	-	-	1082.	1100.	-	1049.	1190.	-	-
				-	-	-	10	-	-	-	-	-	-	-
State Government	2.56%	993.40	10	-	-	-	993.	-	-	-	-	-	-	-
City and County				1	-	-	7	-	-	1	-	-	-	-
Governments	2.30%	1101.44	9	1037.	-	-	1089.	-	-	1250.	-	-	-	-

(Con't)

THE EMPLOYED 1958 GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING TYPES OF COMPANIES (CON'T)

Type of Company[1]	Per Cent	1968 Average Salary	All Engineers	Aero. E.	Ag. E.	Ceram. E.	Civil E.	E.E.	E. Phys.	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Heating &				-	-	-	-	-	-	1	-	6	1	-
Air Conditioning	2.05%	$1214.75	8	-	-	-	-	-	-	1300.	-	1230.	1040.	-
Construction &				-	-	1	4	1	-	-	-	1	-	-
Building Materials	1.79%	1308.43	7	-	-	1000.	1119.	1834.	-	-	-	1850.	-	-
Glass, Ceramics,				-	-	4	-	-	-	1	2	-	-	-
& Refractories	1.79%	1286.43	7	-	-	1313.	-	-	-	1430.	1163.	-	-	-
				1	-	-	-	-	1	2	-	2	-	-
Paper & Printing	1.53%	1224.50	6	1000.	-	-	-	-	1280.	1450.	-	1084.	-	-
Automobile &				-	-	-	-	1	-	-	-	4	-	-
Automotive Equipment	1.28%	1062.60	5	-	-	-	-	913.	-	-	-	1100.	-	-
				-	-	-	-	1	-	1	-	1	1	-
Law	1.02%	1690.00	4	-	-	-	-	1300.	-	1800.	-	2500.	1160.	-
				-	-	-	1	-	-	-	1	1	-	-
Food	.77%	1296.67	3	-	-	-	1060.	-	-	-	1580.	1250.	-	-
				-	-	-	-	-	-	1	-	-	1	1
Petroleum	.77%	980.67	3	-	-	-	-	-	-	890.	-	-	1024.	1028.
				-	-	-	-	-	-	2	-	-	-	-
Banking & Finance	.51%	1350.00	2	-	-	-	-	-	-	1350.	-	-	-	-
				-	-	-	-	-	-	-	-	2	-	-
Machine Tool	.51%	950.00	2	-	-	-	-	-	-	-	-	950.	-	-
				-	-	-	-	1	-	-	-	1	-	-
Management Consultant	.51%	1950.00	2	-	-	-	-	1400.	-	-	-	2500.	-	-
				-	-	-	1	-	-	-	1	-	-	-
Real Estate	.51%	2533.00	2	-	-	-	900.	-	-	-	4166.	-	-	-
				-	-	-	2	-	-	-	-	-	-	-
Trade Association	.51%	1062.50	2	-	-	-	1063.	-	-	-	-	-	-	-
				1	-	-	1	-	-	-	-	-	-	-
Transportation	.51%	1490.50	2	2091.	-	-	890.	-	-	-	-	-	-	-
				-	-	-	-	1	-	-	-	-	-	-
Oceanographic	.26%	2000.00	1	-	-	-	-	2000.	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	1	-	-
Philanthropic	.26%	1050.00	1	-	-	-	-	-	-	-	-	1050.	-	-
				-	-	-	-	-	-	-	-	1	-	-
Power Equipment	.26%	1000.00	1	-	-	-	-	-	-	-	-	1000.	-	-
				-	-	-	-	-	-	-	1	-	-	-
Toys	.26%	1200.00	1	-	-	-	-	-	-	-	1200.	-	-	-
				-	-	-	-	-	-	-	-	1	-	-
Vending Machines	.26%	1000.00	1	-	-	-	-	-	-	-	-	1000.	-	-
Totals	100%		391	26	8	12	55	143	16	20	10	86	14	1

[1]The companies were classified by the respondents.

SIZE OF ORGANIZATIONS IN WHICH THE 1958 GRADUATES ARE NOW EMPLOYED

	Total Employed	0 - 50 Employees	51 - 150 Employees	151 - 500 Employees	501 - 5000 Employees	5001 - 10,000 Employees	Over 10,000 Employees
All Engineers	387[1]	32 8.27% $1455.44	17 4.40% $1188.29	41 10.59% $1154.05	113 29.20% $1214.40	48 12.40% $1216.13	136 35.14% $1256.35
Aero. E.	26	- - -	1 3.85% 1037.00	4 15.38% 1118.25	3 11.54% 1214.67	6 23.08% 1341.83	12 46.15% 1294.83
Ag. E.	8	2 25.00% 790.00	- - -	1 12.50% 990.00	1 12.50% 1100.00	- - -	4 50.00% 1271.25
Ceramic E.	12	- - -	- - -	- - -	1 8.33% 1200.00	3 25.00% 1133.33	8 66.67% 1267.88
Civil E.	53	11 20.75% 1133.00	4 7.55% 1151.25	10 18.87% 1093.60	13 24.53% 1095.31	4 7.55% 963.25	11 20.75% 1196.73
E. E.	142	8 5.63% 1501.00	6 4.23% 1335.17	10 7.04% 1230.60	48 33.80% 1290.67	19 13.38% 1244.11	51 35.92% 1301.59
E. Physics	16	- - -	- - -	2 12.50% 1450.00	6 37.50% 1189.67	4 25.00% 1190.00	4 25.00% 1287.50
Gen. E.	20	2 10.00% 1750.00	- - -	2 10.00% 1125.00	6 30.00% 1254.67	1 5.00% 1600.00	9 45.00% 1224.11
I. E.	10	1 10.00% 4166.00	1 10.00% 1163.00	2 20.00% 887.00	2 20.00% 1390.00	1 10.00% 975.00	3 30.00% 1175.00
M. E.	85	7 8.24% 1688.14	4 4.71% 1056.25	9 10.59% 1163.78	27 31.76% 1104.00	11 12.95% 1221.55	27 31.76% 1208.63
Met. E.	14	1 7.14% 1040.00	1 7.14% 1160.00	1 7.14% 1213.00	6 42.86% 1306.33	1 7.14% 1280.00	4 28.57% 1145.00
Mining E.	1	- - -	- - -	- - -	- - -	- - -	1 100% 1028.00

[1] 4 respondents (2 Civil E., 1 E.E., 1 M.E.) did not answer this question.

HOW MANY ENGINEERS AND SCIENTISTS WORK IN THE ORGANIZATIONAL UNIT TO WHICH YOU BELONG IN YOUR CURRENT MAJOR POSITION?

	All Engineers	Aero. E.	Ag. E.	Ceram. E.	Civil E.	E. E.	E. Phys.	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
None	27 6.90%	1 3.85%	1 12.50%	1 8.33%	6 10.91%	4 2.80%	1 6.25%	2 10.00%	2 20.00%	9 10.47%	- -	- -
1 - 3	52 13.30%	2 7.68%	1 12.50%	4 33.34%	14 25.45%	11 7.69%	1 6.25%	4 20.00%	2 20.00%	12 13.95%	1 7.14%	- -
4 - 10	103 26.34%	3 11.54%	3 37.50%	3 25.00%	12 21.82%	37 25.87%	5 31.25%	4 20.00%	3 30.00%	30 34.88%	3 21.43%	- -
11 - 20	71 18.16%	3 11.54%	- -	3 25.00%	10 18.18%	27 18.89%	2 12.50%	5 25.00%	3 30.00%	14 16.28%	4 28.57%	- -
21 - 50	73 18.67%	8 30.77%	3 37.50%	- -	3 5.45%	30 20.97%	5 31.25%	4 20.00%	- -	15 17.44%	5 35.72%	- -
51 - 100	30 7.67%	4 15.38%	- -	- -	6 10.91%	15 10.49%	- -	- -	- -	3 3.49%	1 7.14%	1 100%
101 - 300	22 5.63%	2 7.68%	- -	1 8.33%	2 3.64%	14 9.79%	- -	- -	- -	3 3.49%	- -	- -
Over 300	13 3.33%	3 11.54%	- -	- -	2 3.64%	5 3.50%	2 12.50%	1 5.00%	- -	- -	- -	- -
Totals	391	26	8	12	55	143	16	20	10	86	14	1

PRESENT FIELD OF PRIMARY RESPONSIBILITY

Field	All Engineers	Per Cent	Average Salary	Aero. E.	Ag. E.	Ceram. E.	Civil E.	E. E.	E. Phys.	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Management or Administration	81	20.72%	$1299.	4	-	2	12	31	3	5	2	19	3	-
				15.38%	-	16.67%	21.82%	21.68%	18.75%	25.00%	20.00%	22.10%	21.44%	-
				$1317.	-	$1450.	$1184.	$1417.	$1300.	$1274.	$1278.	$1190.	$1211.	-
Design	56	14.32%	1093.	4	1	-	11	22	2	1	-	15	-	-
				15.38%	12.50%	-	20.00%	15.38%	12.50%	5.00%	-	17.44%	-	-
				1176.	990.	-	1044.	1130.	1017.	1075.	-	1070.	-	-
Development	53	13.55%	1186.	4	-	5	3	21	2	1	-	15	2	-
				15.38%	-	41.67%	5.45%	14.69%	12.50%	5.00%	-	17.44%	14.29%	-
				1191.	-	1140.	961.	1245.	1240.	1100.	-	1182.	1040.	-
Systems Engineering	39	9.97%	1331.	3	-	-	2	26	-	-	1	5	-	-
				11.54%	-	-	3.64%	18.18%	-	-	10.00%	5.81%	-	-
				1367.	-	-	1428.	1336.	-	-	1200.	1255.	-	-
Research	29	7.42%	1295.	2	3	3	2	7	4	-	-	3	5	-
				7.69%	37.50%	25.00%	3.64%	4.90%	25.00%	-	-	3.49%	35.71%	-
				1216.	1253.	1307.	1100.	1361.	1301.	-	-	1375.	1277.	-
Sales	22	5.63%	1294.	1	-	1	2	9	-	5	-	4	-	-
				3.85%	-	8.33%	3.64%	6.29%	-	25.00%	-	4.65%	-	-
				1240.	-	1025.	950.	1473.	-	1379.	-	1038.	-	-
Teaching	21	5.37%	1205.	2	1	-	-	5	2	2	1	8	-	-
				7.69%	12.50%	-	-	3.49%	12.50%	10.00%	10.00%	9.30%	-	-
				1350.	1100.	-	-	1115.	1310.	1164.	1163.	1228.	-	-
Consulting	20	5.12%	1397.	-	1	-	9	2	1	1	1	4	1	-
				-	12.50%	-	16.36%	1.40%	6.25%	5.00%	10.00%	4.65%	7.14%	-
				-	850.	-	1132.	1373.	960.	1600.	4166.	1478.	1530.	-

(Con't)

RESENT FIELD OF PRIMARY RESPONSIBILITY (CON'T)

ield	All Engineers	Per Cent	Average Salary	Aero. E.	Ag. E.	Ceram. E.	Civil E.	E. E.	E. Phys.	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
ield	12	3.07%	$1171.	-	-	-	3	5	-	1	-	2	1	-
Engineering				-	-	-	5.45%	3.49%	-	5.00%	-	2.33%	7.14%	-
				-	-	-	1075.	1134.	-	1000.	-	1570.	1024.	-
roduction	10	2.56%	1161.	1	-	1	-	2	-	-	3	2	-	1
				3.85%	-	8.33%	-	1.40%	-	-	30.00%	2.33%	-	100%
				1000.	-	1200.	-	1150.	-	-	1000.	1542.	-	1028.
anufacturing	9	2.30%	1177.	-	-	-	-	2	-	1	2	3	1	-
				-	-	-	-	1.40%	-	5.00%	20.00%	3.49%	7.14%	-
				-	-	-	-	1152.	-	1250.	1150.	1145.	1300.	-
onstruction	6	1.53%	1143.	-	-	-	5	-	2	-	-	1	-	-
				-	-	-	9.09%	-	12.50%	-	-	1.16%	-	-
				-	-	-	1186.	-	1375.	-	-	930.	-	-
aw	6	1.53%	1648.	-	-	-	-	2	-	2	-	1	1	-
				-	-	-	-	1.40%	-	10.00%	-	1.16%	7.14%	-
				-	-	-	-	1525.	-	1588.	-	2500.	1160.	-
esting &	6	1.53%	1108.	1	-	-	-	3	-	-	-	2	-	-
Reliability				3.85%	-	-	-	2.10%	-	-	-	2.33%	-	-
				1110.	-	-	-	1125.	-	-	-	1082.	-	-
ervice	5	1.28%	1117.	-	-	-	4	1	-	-	-	-	-	-
				-	-	-	7.27%	.70%	-	-	-	-	-	-
				-	-	-	1096.	1200.	-	-	-	-	-	-
omputer	3	.77%	983.	-	1	-	1	1	-	-	-	-	-	-
Programming &				-	12.50%	-	1.82%	.70%	-	-	-	-	-	-
Application				-	730.	-	1143.	1075.	-	-	-	-	-	-

(Con't)

PRESENT FIELD OF PRIMARY RESPONSIBILITY (CON'T)

Field	All Engineers	Per Cent	Average Salary	Aero. E.	Ag. E.	Ceram. E.	Civil E.	E. E.	E. Phys.	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Company Owner	2	.51%	1325.	-	-	-	-	2	-	-	-	-	-	-
				-	-	-	-	1.40%	-	-	-	-	-	-
				-	-	-	-	1325.	-	-	-	-	-	-
Design & Development	2	.51%	1148.	1	-	-	-	-	-	-	-	1	-	-
				3.85%	-	-	-	-	-	-	-	1.16%	-	-
				1295.	-	-	-	-	-	-	-	1000.	-	-
Marketing	2	.51%	1455.	1	-	-	-	1	-	-	-	-	-	-
				3.85%	-	-	-	.70%	-	-	-	-	-	-
				1100.	-	-	-	1810.	-	-	-	-	-	-
Pilot	2	.51%	1567.	2	-	-	-	-	-	-	-	-	-	-
				7.69%	-	-	-	-	-	-	-	-	-	-
				1567.	-	-	-	-	-	-	-	-	-	-
Purchasing	2	.51%	1338.	-	1	-	-	1	-	-	-	-	-	-
				-	12.50%	-	-	.70%	-	-	-	-	-	-
				-	1325.	-	-	1350.	-	-	-	-	-	-
Finance	1	.26%	1100.	-	-	-	-	-	-	1	-	-	-	-
				-	-	-	-	-	-	5.00%	-	-	-	-
				-	-	-	-	-	-	1100.	-	-	-	-
Technical Writing	1	.26%	967.	-	-	-	-	-	-	-	-	1	-	-
				-	-	-	-	-	-	-	-	1.16%	-	-
				-	-	-	-	-	-	-	-	967.	-	-
Transportation Planning	1	.26%	1041.	-	-	-	1	-	-	-	-	-	-	-
				-	-	-	1.82%	-	-	-	-	-	-	-
				-	-	-	1041.	-	-	-	-	-	-	-
Totals	391	100%		26	8	12	55	143	16	20	10	86	14	1

LEVEL OF RESPONSIBILITY

		Supervise a Small Group	Individual in a Group	Manage a Major Group or Department	Top Executive	Branch Manager	Individual in Private Practice	Plant Manager or Super-intendent	Assistant to President
All Engineers	388[1]	174	130	58	11	6	4	4	1
Per Cent		44.84%	33.50%	14.95%	2.84%	1.55%	1.03%	1.03%	.26%
Average Salary		$1192.50	$1187.99	$1362.02	$1880.54	$1445.00	$1127.50	$1202.00	$1834.00
Aero. E.	26	12	9	4	-	1	-	-	-
		46.15%	34.62%	15.38%	-	3.85%	-	-	-
		1241.92	1138.00	1444.50	-	1820.00	-	-	-
Ag. E.	8	2	3	2	-	-	1	-	-
		25.00%	37.50%	25.00%	-	-	12.50%	-	-
		1165.00	1173.33	1027.50	-	-	850.00	-	-
Ceramic E.	11	6	4	1	-	-	-	-	-
		54.55%	36.36%	9.09%	-	-	-	-	-
		1203.33	1155.75	1700.00	-	-	-	-	-
Civil E.	54	26	10	11	4	2	-	1	-
		48.15%	18.52%	20.37%	7.41%	3.70%	-	1.85%	-
		1081.08	1035.50	1172.73	1370.00	1250.00	-	1100.00	-
E. E.	142	67	51	17	3	1	2	-	1
		47.18%	35.92%	11.97%	2.11%	.71%	1.40%	-	.71%
		1279.96	1197.20	1523.41	1666.67	1650.00	1250.00	-	1834.00
E. Physics	16	9	6	1	-	-	-	-	-
		56.25%	37.50%	6.25%	-	-	-	-	-
		1162.78	1280.50	1800.00	-	-	-	-	-
Gen. E.	20	7	9	3	-	1	-	-	-
		35.00%	45.00%	15.00%	-	5.00%	-	-	-
		1198.57	1347.22	1260.00	-	1600.00	-	-	-
I. E.	10	4	3	2	1	-	-	-	-
		40.00%	30.00%	20.00%	10.00%	-	-	-	-
		1140.75	991.33	1340.00	4166.00	-	-	-	-
M. E.	86	35	29	16	2	1	-	3	-
		40.70%	33.72%	18.60%	2.33%	1.16%	-	3.49%	-
		1101.91	1185.97	1320.38	2500.00	1100.00	-	1236.00	-
Met. E.	14	5	6	1	1	-	1	-	-
		35.72%	42.86%	7.14%	7.14%	-	7.14%	-	-
		1232.80	1244.50	1280.00	1040.00	-	1160.00	-	-
Mining E.	1	1	-	-	-	-	-	-	-
		100%	-	-	-	-	-	-	-
		1028.00	-	-	-	-	-	-	-

[1] 3 respondents (1 Ceram. E., 1 Civil E., 1 E.E.) did not answer this question.

QUESTIONS CONCERNING PRESENT POSITION AND ITS RELATION TO THE UNDERGRADUATE DEGREE

QUESTION: To hold your present position, is it important for you to have an engineering degree?

Yes	345	(88.24%)
No	46	(11.76%)
	391	

QUESTION: How much knowledge and skill related to your undergraduate degree do you apply to your present position?

Most or all	148	(37.85%)
Some	186	(47.57%)
Very little	54	(13.81%)
None	3	(.77%)
	391	

QUESTION: On the average, how many hours a week do you work on your job?

30 hours or less	6	(1.53%)
31-40 hours	96	(24.55%)
41-45 hours	161	(41.18%)
46-50 hours	80	(20.46%)
51 or more	48	(12.28%)
	391	

QUESTION: If you have not received an advanced degree and are not working toward one, do you feel that this has been a limiting factor in your progress with your company and in your work? (Only 223 respondents answered this question.)

Yes	30
No	193

(Con't)

QUESTIONS CONCERNING PRESENT POSITION AND ITS RELATION TO THE UNDERGRADUATE DEGREE (CON'T)

Of the 30 who answered yes, the following reasons were given:

3 a four-year engineering curriculum is not adequate.
2 more prestige.
2 would offer more opportunities in management.
1 supervisory positions require at least an M.S.
1 those receiving same are advanced more rapidly.
1 better understanding of my "inventions."
1 lack of background in related subjects.
1 an advanced degree looks good on personnel records in the eyes of management; also, a little more learning never hurt anybody.
1 technical management requires business training.
1 feel that there is a definite advantage in a Ph.D.
1 professional business approach is required.
1 advanced degree improves professional status.
1 company definitely promoting advanced degrees.
1 greater monetary rewards.
1 business degree highly desirable in marketing function.
1 companies pay proportional to worth and worth is generally proportional to education.
1 an M.B.A. would make the management switch easier.
1 an M.B.A. would have been helpful.
1 I would have taken servo mechanics and Larland transforms, both of which would be useful now. I also would have had a better understanding of the material I did get as an undergraduate; also, matrix manipulation and statistics.
1 the same work would have been more acceptable with an M.S.
1 an engineering degree does not give you enough background for all facets of running a company.
1 an advanced degree could open new opportunities.
1 lack of background in business fundamentals.
1 Masters seems mandatory for design.
1 limits advancement.
1 all other factors equal - the Ph.D.'s get the good jobs and there are a lot of Ph.D.'s around.

QUESTIONS CONCERNING CURRICULUM

QUESTION: Rank in order the value (1, 2, 3, etc.) of additional degrees which you feel would be the most valuable to you. (Only 351 respondents answered this question.)

	Order of Importance					
	1st	2nd	3rd	4th	5th	6th
M. B. A.	137 39.03%	48 13.68%	29 8.26%	3 .85%	2 .57%	1 .28%
M.S. in Original Field	48 13.68%	51 14.53%	45 12.82%	5 1.43%	5 1.42%	2 .57%
Ph.D. in Original Field	37 10.54%	54 15.38%	39 11.11%	3 .85%	5 1.42%	6 1.71%
M.S. in Another Technical Field	56 15.95%	27 7.69%	38 10.83%	5 1.43%	6 1.71%	2 .57%
Law	25 7.12%	37 10.54%	27 7.69%	2 .57%	- -	10 2.85%
Ph.D. in Another Technical Field	20 5.70%	23 6.55%	28 7.98%	6 1.71%	4 1.14%	5 1.42%
Other	28[1] 7.98%	13[2] 3.70%	22[3] 6.27%	1[4] .28%	- -	5[5] 1.42%
No Choice Listed	- -	98 27.93%	123 35.04%	326 92.88%	329 93.74%	320 91.18%
Totals	351	351	351	351	351	351

[1] 15-Listed only other - no explanation
2-Accounting
2-Dr. Education
1-Business
1-Chemistry and Electronics
1-Finance
1-Marketing
1-B.S. Industrial Administration
1-M.S. and Ph.D. Public Administration
1-Study in Foreign University
1-Theology
1-No further degrees necessary
28

[2] 9-Listed only other - no explanation
1-M.S. non-technical field
1-Management
1-L.L.M.
1-Physics
13

[3] 20-Listed only other - no explanation
1-Accounting
1-C.P.A.
22

[4] 1-Listed only other - no explanation

[5] 5-Listed only other - no explanation

(Con't)

QUESTIONS CONCERNING CURRICULUM (CON'T)

QUESTION: If you had it to do all over again would you choose:

235	a specialized undergraduate engineering curriculum
54	a common undergraduate engineering curriculum (no specialization)
26	another type of curriculum in mathematics or the physical sciences (e.g., physics, chemistry, etc.)
45	another type of undergraduate professional curriculum (e.g., pre-law, pre-medicine, etc.)
6	a liberal arts curriculum
11	a business administration curriculum
4[2]	other
381[1]	

[1] Ten respondents did not answer this question.

[2] 2-combination engineering and business administration degree.
1-go for an immediate M.B.A. rather than M.S. in E.E.
1-no explanation of "other" given.

QUESTIONS CONCERNING PROFESSIONAL DEVELOPMENT

QUESTION: Have you become registered as a:

Professional engineer	94
Engineer-in-training	43
Structural engineer	7
Surveyor	2
	146

QUESTION: Have you participated in any company sponsored professional or management programs?

Yes	230
No	151
	381

MISCELLANEOUS QUESTIONS

QUESTION: Have you held an office in any of the following organizations?

School Board	8
Church Groups	126
Service Clubs	63
Boy Scouts or Youth Groups	68
Political	25
Other	56*

*11-Professional societies
3-Fraternal
3-Recreation clubs
2-Home Owners Association
1-Audibon Society
1-Athletic organization
1-Company organization
1-Civic organization
1-Country Club President
1-Kidney Foundation
1-Little League
1-Neighborhood association
1-P.T.A.
1-Toastmasters
1-United Fund
1-University fund raising
25-listed other (no explanation given)

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